# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 973 | (455/168.1,176.1,180.1,188.1). CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 15:36 |
| S2 | 568 | S1 and @ad<"20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 10:23 |
| S3 | 44 | S2 and ((low adj noise adj amplifier) or LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:05 |
| S8 | 6577 | @ad<"20030627" and "455"/$.ccls. and ((two second) near3 receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:10 |
| S9 | 2340 | @ad<"20030627" and "455"/$.ccls. and ((two second) near3 receiver). bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 16:45 |
| S10 | 310 | S9 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:36 |
| S11 | 62 | S10 and (detect$3 with (interference cancellation)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:04 |
| S12 | 11 | S11 and (dual-band multi-band dual-frequency multi-frequency) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 14:37 |

| S13 | 19 | S10 and (detect$3 with (interference cancellation)).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:04 |
| S14 | 76 | @ad<"20030627" and "455"/$.ccls. and (different near3 (radiation near pattern)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:20 |
| S15 | 8 | S14 and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:24 |
| S16 | 1 | S14 and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:25 |
| S17 | 5 | @ad<"20030627" and "455"/$.ccls. and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:28 |
| S18 | 4 | @ad<"20030627" and "455"/$.ccls. and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).bsum. and (two near2 antennas).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:29 |

| S25 | 115 | ("3694754" \| "3699444" \| "4044359" \| "4072455" \| "4218773" \| "4275397" \| "4338606" \| "4466131" \| "4509198" \| "4593413" \| "4644562" \| "4713817" \| "4852123" \| "4992798" \| "5027430" \| "5031193" \| "5048059" \| "5068918" \| "5109390" \| "5124672" \| "5155744" \| "5164961" \| "5191598" \| "5291474" \| "5301367" \| "5319677" \| "5337005" \| "5351274" \| "5355524" \| "5361404" \| "5390168" \| "5392460" \| "5408201" \| "5471652" \| "5481572" \| "5519885" \| "5584056" \| "5602847" \| "5678222" \| "5680419" \| "5722053" \| "5727019" \| "5732330" \| "5757921" \| "5758266" \| "5787126" \| "5787131" \| "5793794" \| "5796788" \| "5809090" \| "5825887" \| "5878093" \| "5889827" \| "5898907" \| "6081566").PN. OR ("2003/0069036" \| "2003/0199261" \| "5125108" \| "5152010" \| "5966646" \| "5974305" \| "6173014").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 12:56 |
|------|------|------|------|------|------|------|
| S26 | 114 | @ad<"20030627" and S25 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:05 |
| S28 | 2 | S26 and (whip adj antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 12:56 |
| S30 | 30 | S26 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 13:08 |
| S31 | 4 | (("5905467") or ("5274388")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:42 |

| S32 | 35 | ("4670717" \| "4992799" \| "5337061" \| "5561437" \| "5564078" \| "5572223" \| "5649306").PN. OR ("5274388" \| "5905467").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 13:11 |
|-----|-----|-----|-----|-----|-----|-----|
| S33 | 32 | S32 and @ad<"20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:11 |
| S34 | 6 | S33 and ((omni-directi$5 directiv$3) with antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 13:47 |
| S35 | 2 | S33 and (two with receivers) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:47 |
| S39 | 9 | S22 and (two near2 receivers) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:07 |
| S42 | 5 | S22 and ((microstrip patch) with antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:09 |
| S43 | 50 | @ad<"20030627" and "455"/$.ccls. and (((microstrip patch) with antenna) same gps) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:10 |
| S44 | 8 | S43 and (radiation with pattern) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:11 |

# EAST Search History

| S45 | 3 | S43 and (antenna with directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:11 |
|---|---|---|---|---|---|---|
| S46 | 6 | ("4829309" \| "5007105" \| "5410749" \| "5627548" \| "5889474" \| "6346919").PN. OR ("6697020").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 15:29 |
| S47 | 14 | S43 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:36 |
| S48 | 1 | S31 and (detect$3 interference cancellation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:43 |
| S49 | 14 | (US-20030069036-$ or US-20030199261-$).did. or (US-5809090-$ or US-5502446-$ or US-6173014-$ or US-5274388-$ or US-5966646-$ or US-5974305-$ or US-5905467-$ or US-6597926-$ or US-6259902-$ or US-5152010-$ or US-5125108-$ or US-6697020-$).did. | US-PGPUB; USPAT | OR | OFF | 2006/02/10 16:25 |
| S50 | 5 | S49 and baseband | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 16:25 |
| S51 | 67 | @ad<"20030627" and "455"/$.ccls. and (detect$3 with interference with cancellation).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 16:46 |
| S52 | 70888 | "455"/$.ccls. and @ad<"20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 15:37 |

| S53 | 108 | S52 and ((direct adj conversion) and (down adj conver$3) and baseband).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 15:40 |
|---|---|---|---|---|---|---|
| S55 | 8 | S53 and (baseband adj processor). bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 15:43 |
| S56 | 5849 | @ad<"20030627" and (cancel$4 with (noise interference)).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:45 |
| S57 | 27 | S56 and (VCO (Voltage adj Controlled adj Oscillator)) and (LNA (Low adj Noise adj Amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 12:58 |
| S58 | 22791 | @ad<"20030627" and (eliminat$3 with (noise interference)).bsum. not S56 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:46 |
| S59 | 85 | S58 and (VCO (Voltage adj Controlled adj Oscillator)) and (LNA (Low adj Noise adj Amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:46 |
| S60 | 0 | (S57 or S59) and (second adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 13:04 |
| S61 | 17 | (S57 or S59) and UHF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 13:04 |

| S62 | 1279 | @ad<"20030627" and ("455"/$ "375"/$).ccls. and (diversity near combin$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:21 |
|-----|------|-----|-----|-----|-----|-----|
| S65 | 156 | S62 and (LNA (low adj noise adj amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:18 |
| S66 | 24 | S65 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:18 |
| S67 | 990 | @ad<"20030627" and ("455"/$ "375"/$).ccls. and (LNA (low adj noise adj amplifier)) and (VCO (voltage adj controlled adj oscillator)) and mixer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:02 |
| S68 | 79 | S67 and (second near receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:24 |
| S70 | 27 | S68 and (antennas (second near antenna)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/10 14:38 |
| S71 | 2 | S68 and (type near antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:29 |
| S72 | 8 | S68 and (WAN (wide adj area adj network)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:38 |
| S73 | 14 | ("4670717").PN. OR ("5274388"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/10 15:01 |

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|---|---|---|---|---|---|---|
| S74 | 670 | @ad<"20030627" and ("455"/$ "375"/$ "333"/$ "343"/$).ccls. and (different near3 (type characteristic) near3 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:02 |
| S75 | 199 | S74 and diversity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:03 |
| S76 | 52 | S75 and (patch near2 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:04 |
| S77 | 1 | 10/607796 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:14 |
| S78 | 1050 | @ad<"20030627" and "455"/$.ccls. and (antenna with receiv$3 near3 only) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:45 |
| S79 | 85 | @ad<"20030627" and "455"/$.ccls. and ((first second) near3 antenna with receiv$3 near3 only) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 17:39 |
| S80 | 55 | S79 and ((first second) near3 antenna with transmi$5 near3 receiv$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:49 |
| S81 | 8 | S80 and (omni-directional (omni adj directional) omnidirectional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:57 |

| S82 | 47 | S80 not S81 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 17:14 |
|-----|-----|-----|-----|-----|-----|-----|
| S83 | 2 | S82 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:28 |
| S84 | 5 | @ad<"20030627" and "455"/$.ccls. and ((duplex near2 antenna) same (receiv$3 near2 only)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:05 |
| S85 | 41 | ("3775689" \| "4099121" \| "4378605" \| "4573155" \| "4596024" \| "4646082" \| "4823123" \| "4825193" \| "4940963" \| "5070329" \| "5093924" \| "5153582" \| "5184349" \| "5224150" \| "5369681" \| "5404569" \| "5475863" \| "5481572" \| "5507022" \| "5564090").PN. OR ("5809090"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/27 17:53 |
| S86 | 24 | ("3775689" \| "4099121" \| "4378605" \| "4573155" \| "4596024" \| "4646082" \| "4823123" \| "4825193" \| "4940963" \| "5070329" \| "5093924" \| "5153582" \| "5184349" \| "5224150" \| "5369681" \| "5404569" \| "5475863" \| "5481572" \| "5507022" \| "5564090").PN. OR ("6088407"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/27 18:02 |
| S87 | 43 | ("4199661" \| "4232294" \| "4342995" \| "4445214" \| "4517561" \| "4517669" \| "4519068").PN. OR ("4646082").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/28 10:37 |
| S88 | 597 | @ad<"20030627" and "455"/$.ccls. and (first adj receiver) same (second adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:06 |

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|---|---|---|---|---|---|---|
| S89 | 158 | S88 and duplex$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 11:11 |
| S90 | 35 | S89 and (first adj antenna) and (second adj antenna) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S91 | 15 | ("4670717").PN. OR ("5274388").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/28 11:28 |
| S92 | 0 | S91 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S93 | 4 | S91 and down | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 11:34 |
| S95 | 1 | S91 and convert$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 12:24 |
| S96 | 7 | S90 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S97 | 124 | @ad<"20030627" and "455"/$.ccls. and (dual adj antenna) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/23 14:36 |
| S98 | 37 | S97 and ((directional smart) adj antenna) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/23 14:18 |

| S99 | 29 | S98 and directional | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:18 |
|---|---|---|---|---|---|---|
| S100 | 1723 | @ad<"20030627" and ("455"/$ "333"/$ "343"/$ "375"/$).ccls. and (antenna adj diversity) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:59 |
| S101 | 178 | S100 and directional and (omni-directional omnidirectional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:45 |
| S103 | 31 | S101 and (multipath adj fad$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:46 |
| S104 | 65 | @ad<"20030627" and ("455"/$ "333"/$ "343"/$ "375"/$).ccls. and ((patch planar) adj antenna) and (multipath adj fading) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:02 |
| S105 | 20 | S104 and ((two dual rake) adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:03 |
| S106 | 11 | S105 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:34 |
| S107 | 15 | ("4670717").PN. OR ("5274388"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/23 15:16 |
| S108 | 29 | S104 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:23 |

| S10 9 | 196 | (((directional patch planar) adj antenna) with (omnidirectional omni-directional) with (together both)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:24 |
|---|---|---|---|---|---|---|
| S11 0 | 9 | S109 and (multipath adj fading) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:25 |
| S11 1 | 31 | (US-20030069036-$ or US-20040224654-$ or US-20030199261-$ or US-20030104796-$ or US-20020163391-$ or US-20030027610-$ or US-20040266356-$ or US-20040014432-$).did. or (US-6088407-$ or US-5974305-$ or US-5152010-$ or US-6711418-$ or US-5274388-$ or US-6249190-$ or US-6226276-$ or US-6724804-$ or US-6697020-$ or US-5809090-$ or US-5125108-$ or US-5905467-$ or US-4517669-$ or US-4186347-$ or US-6597926-$ or US-6173014-$ or US-5502446-$ or US-6259902-$ or US-5966646-$ or US-6842629-$ or US-6023615-$ or US-4646082-$ or US-6560443-$).did. | US-PGPUB; USPAT | OR | ON | 2008/01/23 15:28 |
| S11 2 | 5 | S111 and (type near2 antenna) | US-PGPUB; USPAT | OR | ON | 2008/01/23 15:34 |
| S11 3 | 3 | S112 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:34 |